Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643937

Luminaire Tested: GWS-SA6F-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P643937
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA6F-830-U-T2R-W-GRSBK
Description:	GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source:	(96) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26503.3 lumens
Efficiency:	N/A
Efficacy:	71.1 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G1

Input Watts (W):	372.6
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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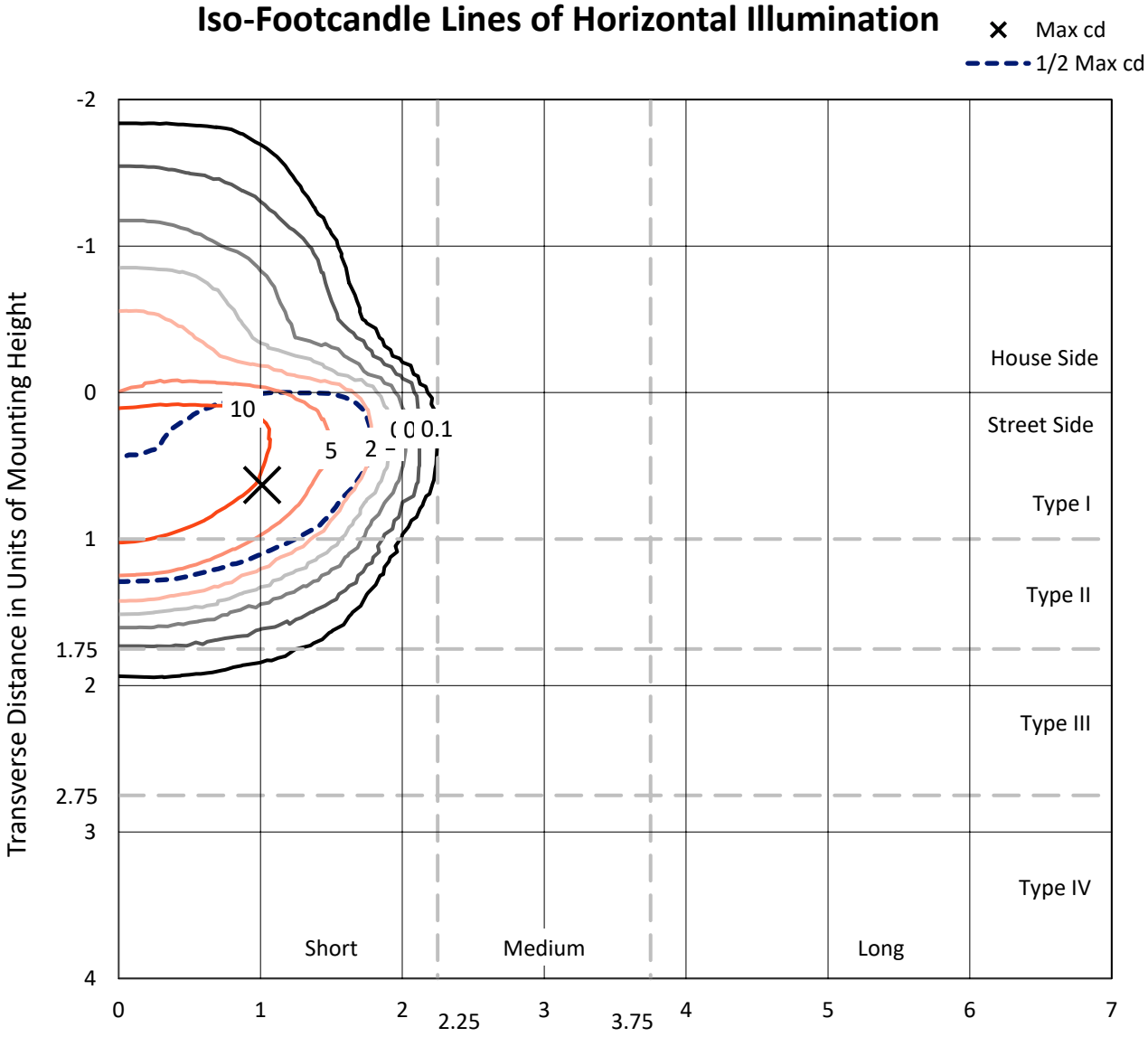
REPORT NUMBER: P643937
CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - N/A

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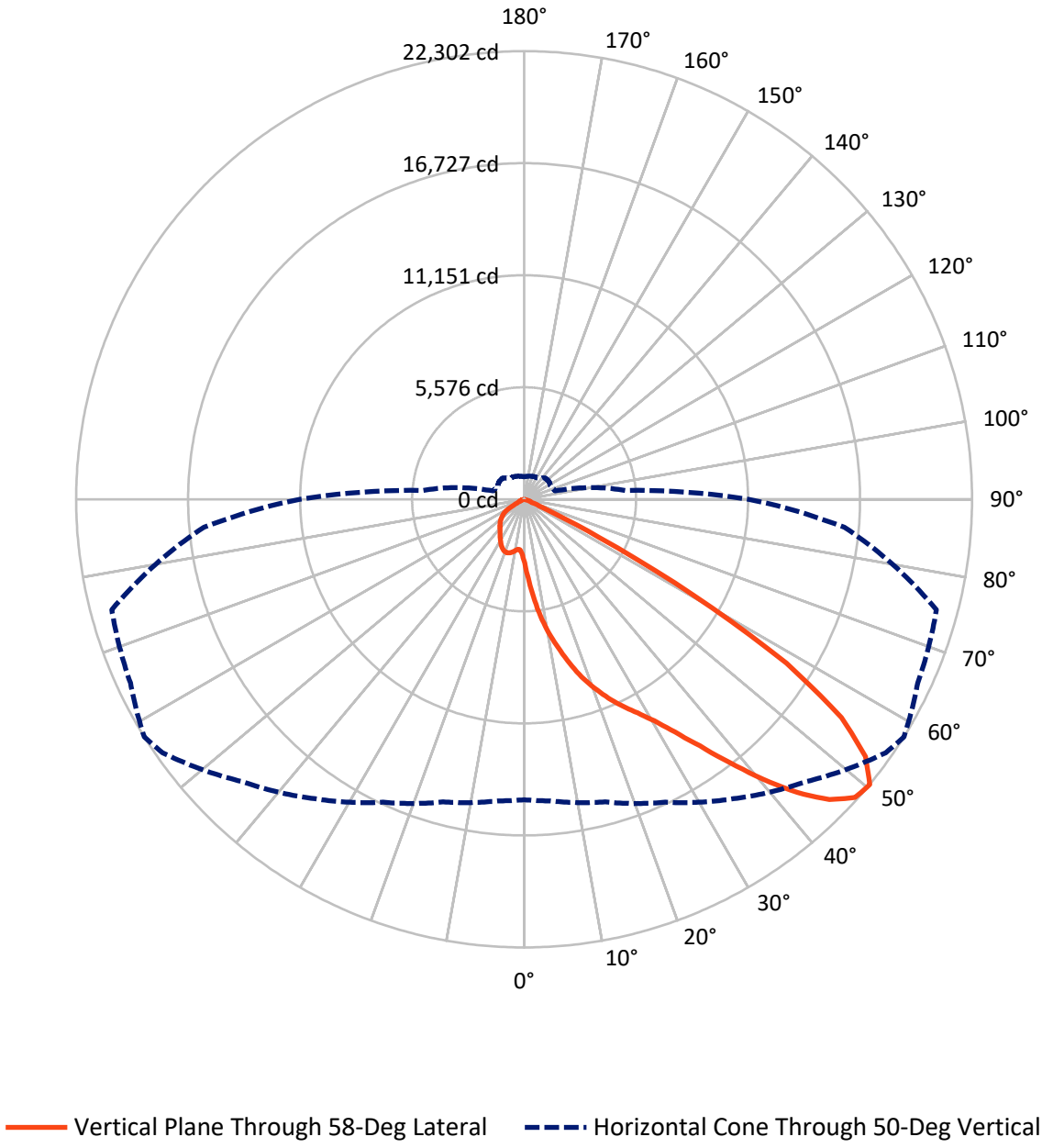
Luminous Intensity Polar Plot



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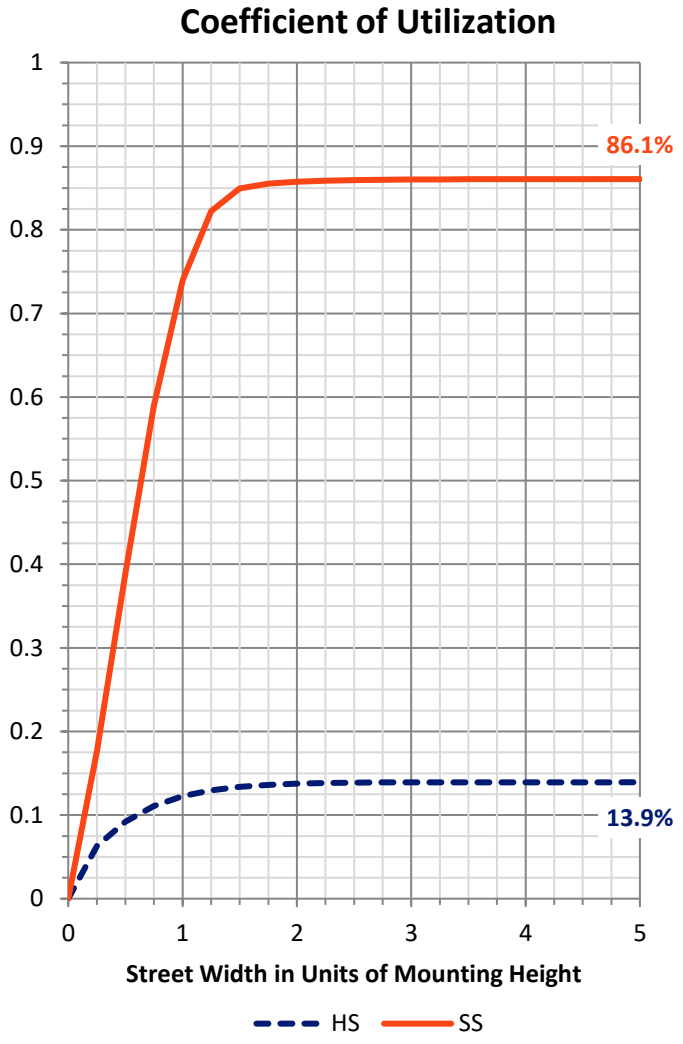
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3712.1	0.0	3712.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22791.1	0.0	22791.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	26503.3	0.0	26503.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	1.5
10°-20°	1552.6	5.9
20°-30°	3141.7	11.9
30°-40°	5558.0	21.0
40°-50°	8102.4	30.6
50°-60°	6494.3	24.5
60°-70°	1170.0	4.4
70°-80°	92.2	0.3
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26503.3	100.0
0°-180°	26503.3	100.0



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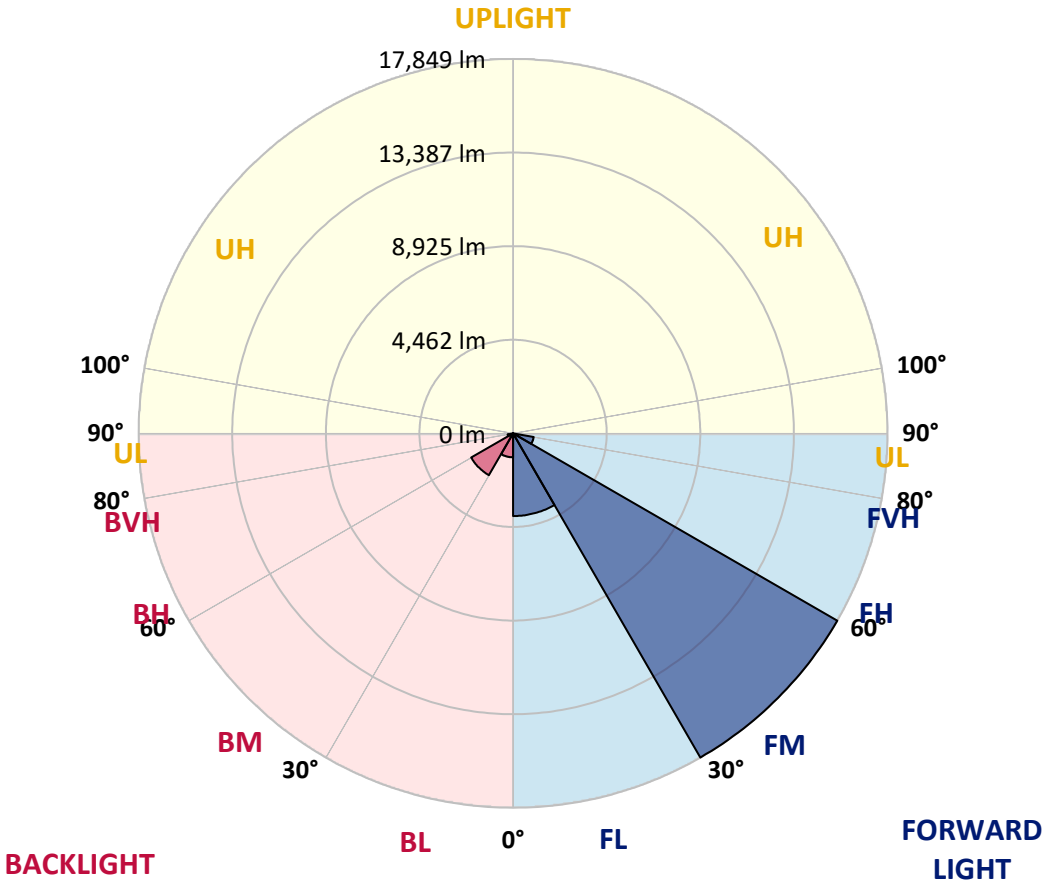
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3943.6	14.9			
FM	(30°-60°)	17849.2	67.3			
FH	(60°-80°)	998.4	3.8			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	1142.8	4.3	B3/2500		
BM	(30°-60°)	2305.4	8.7	B2/2500		
BH	(60°-80°)	263.8	1.0	B1/500		G1/500
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
Type II Short



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REPORT NUMBER: P643937
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	*3165.8*	3165.8	3165.8	3165.8
2.5°	4684.9	4611.2	4568.7	4534.7	4384.5	4146.4	3990.5	*3908.3*	3772.3	3542.7	3344.3
5°	6113.3	6059.5	5960.3	5892.3	5699.5	5362.3	5013.7	*4874.8*	4565.9	4047.2	3582.4
7.5°	7059.9	7020.3	6983.4	6892.7	6711.3	6405.2	6019.8	*5875.2*	5399.1	4662.2	3899.8
10°	7788.3	7757.1	7714.6	7711.8	7570.1	7295.2	6918.2	*6768.0*	6252.2	5331.1	4273.9
12.5°	8428.8	8403.3	8394.8	8474.2	8383.5	8179.4	7771.3	*7584.3*	7037.3	6014.1	4687.7
15°	8868.1	8862.5	8899.3	9055.2	9106.2	9012.7	8669.7	*8468.5*	7839.3	6700.0	5144.0
17.5°	9069.4	9086.4	9157.2	9426.5	9653.2	9732.6	9469.0	*9298.9*	8635.7	7394.4	5631.5
20°	9412.3	9406.6	9449.1	9704.2	9982.0	10265.4	10186.0	*10041.5*	9440.6	8128.4	6172.8
22.5°	10378.7	10296.6	10205.9	10245.5	10344.7	10676.3	10823.7	*10750.0*	10271.1	8882.3	6731.2
25°	11863.9	11778.8	11486.9	11203.5	11016.4	11166.7	11367.9	*11404.7*	11095.8	9656.0	7315.0
27.5°	13439.7	13363.1	13034.4	12609.2	12073.6	11812.8	11963.1	*12036.7*	11906.4	10577.1	7935.7
30°	14916.3	14814.2	14454.3	13927.1	13306.5	12906.8	12736.8	*12787.8*	12864.3	11668.3	8664.1
32.5°	16197.3	16120.8	15690.0	15134.5	14536.5	14119.9	13723.1	*13808.1*	13995.2	13003.2	9596.5
35°	17282.8	17243.1	16786.8	16234.2	15602.1	15389.6	15049.5	*15066.5*	15253.5	14615.8	10733.0
37.5°	18226.6	18158.6	17744.8	17231.8	16730.1	16696.1	16602.6	*16611.1*	16707.5	16494.9	12039.6
40°	18821.8	18759.4	18464.7	18147.2	17790.1	17795.8	18280.4	*18317.3*	18206.7	18339.9	13419.8
42.5°	19045.7	19000.3	18841.6	18844.4	18807.6	18974.8	19884.6	*19952.6*	19555.8	19788.2	14598.8
45°	18657.4	18637.5	18648.9	19057.0	19499.1	20014.9	21196.8	*21315.8*	20754.7	20749.0	15519.9
47.5°	17404.7	17365.0	17696.6	18391.0	19414.1	20417.4	21990.4	*22174.6*	21593.6	21298.8	16098.1
50°	*14950.3*	*15063.6*	*15588.0*	*16630.9*	*18186.9*	*19864.7*	*21981.9*	*22302.1*	*21624.8*	*21250.6*	*16001.8*
52.5°	10829.4	10806.7	11954.6	13388.6	15281.9	18096.2	20814.2	*21281.8*	20868.0	20777.3	15786.4
55°	5892.3	6099.1	6872.9	8771.8	11135.5	14749.0	18147.2	*19167.5*	19646.5	20604.5	16174.6
57.5°	2165.3	2256.0	2740.6	4084.0	5895.1	9171.4	13862.0	*15400.9*	16880.3	20122.6	16109.5
60°	872.9	889.9	1082.7	1502.1	2477.1	4667.9	8315.5	*9681.5*	11076.0	15403.7	12362.7
62.5°	634.9	657.5	734.1	878.6	1252.7	2040.6	3585.2	*4169.1*	4557.4	7629.6	6090.6
65°	513.0	530.0	592.3	657.5	827.6	1096.8	1156.3	*1113.8*	1108.2	1972.6	1397.2
67.5°	425.1	442.1	487.5	532.8	595.2	547.0	396.8	*416.6*	340.1	337.3	274.9
70°	311.8	331.6	376.9	425.1	357.1	147.4	229.6	*340.1*	257.9	215.4	209.7
72.5°	235.2	249.4	291.9	277.7	104.9	56.7	153.0	*246.6*	198.4	158.7	155.9
75°	175.7	184.2	147.4	45.3	11.3	14.2	56.7	*102.0*	110.5	90.7	90.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.7	*8.5*	11.3	14.2	17.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0

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Scaled Data Report

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CATALOG NUMBER: GWS-SA6F-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8	3165.8
2.5°	3231.0	3111.9	2941.9	2800.2	2692.5	2587.6	2508.2	2428.9	2426.1	2386.4	2377.9
5°	3367.0	3151.6	2839.8	2615.9	2479.9	2397.7	2341.0	2312.7	2298.5	2284.3	2278.7
7.5°	3562.6	3253.6	2822.8	2584.8	2471.4	2417.6	2377.9	2360.9	2352.4	2341.0	2338.2
10°	3803.5	3401.0	2885.2	2644.3	2545.1	2494.1	2451.6	2426.1	2411.9	2392.0	2386.4
12.5°	4092.5	3582.4	2984.4	2743.5	2638.6	2570.6	2513.9	2477.1	2457.2	2431.7	2426.1
15°	4404.3	3778.0	3094.9	2834.2	2709.5	2621.6	2550.8	2494.1	2457.2	2426.1	2417.6
17.5°	4727.4	3976.3	3194.1	2896.5	2743.5	2638.6	2536.6	2460.1	2414.7	2375.0	2363.7
20°	5090.2	4180.4	3259.3	2907.9	2732.1	2593.3	2474.2	2377.9	2332.5	2278.7	2267.3
22.5°	5470.0	4370.3	3287.6	2882.4	2669.8	2508.2	2380.7	2281.5	2216.3	2159.6	2142.6
25°	5838.4	4540.3	3273.5	2811.5	2576.3	2389.2	2258.8	2156.8	2086.0	2029.3	2015.1
27.5°	6229.5	4682.1	3222.5	2706.6	2448.7	2258.8	2134.1	2046.3	1981.1	1918.7	1904.6
30°	6668.8	4812.4	3140.3	2579.1	2298.5	2125.6	2029.3	1969.8	1898.9	1833.7	1813.9
32.5°	7198.8	4928.6	3021.2	2426.1	2165.3	2009.4	1955.6	1910.2	1828.0	1760.0	1745.9
35°	7805.3	5025.0	2871.0	2267.3	2034.9	1935.7	1924.4	1864.9	1757.2	1677.8	1660.8
37.5°	8508.2	5118.5	2692.5	2111.5	1938.6	1901.7	1904.6	1802.5	1672.2	1575.8	1564.5
40°	9264.9	5212.0	2494.1	1975.4	1850.7	1881.9	1856.4	1711.8	1499.3	1405.8	1394.4
42.5°	10052.8	5314.1	2292.8	1847.9	1777.0	1805.4	1768.5	1530.5	1377.4	1329.2	1323.6
45°	10764.2	5435.9	2074.6	1720.3	1703.3	1694.8	1632.5	1385.9	1320.7	1286.7	1283.9
47.5°	11277.2	5416.1	1842.2	1598.5	1624.0	1595.6	1405.8	1317.9	1264.0	1218.7	1207.4
50°	*11183.7*	*5070.3*	*1601.3*	*1462.4*	*1522.0*	*1496.4*	*1264.0*	*1238.5*	*1190.4*	*1142.2*	*1125.2*
52.5°	10945.6	4599.9	1391.6	1317.9	1411.4	1351.9	1167.7	1142.2	1099.7	1037.3	1017.5
55°	11073.1	4157.7	1227.2	1201.7	1298.1	1119.5	1060.0	1020.3	975.0	906.9	898.4
57.5°	10662.2	3392.5	986.3	1003.3	1147.8	955.1	929.6	867.3	790.7	745.4	739.7
60°	7380.2	1822.4	617.9	637.7	830.4	802.1	833.2	776.6	683.0	640.5	632.0
62.5°	3389.7	731.2	337.3	323.1	436.5	544.2	714.2	708.5	592.3	524.3	518.7
65°	821.9	334.4	240.9	226.7	246.6	325.9	464.8	558.3	479.0	399.6	391.1
67.5°	266.4	272.1	221.1	206.9	218.2	243.7	277.7	308.9	306.1	280.6	274.9
70°	212.6	246.6	204.1	187.1	187.1	195.6	187.1	150.2	130.4	141.7	147.4
72.5°	158.7	187.1	161.5	144.5	138.9	136.0	116.2	85.0	59.5	53.8	51.0
75°	93.5	104.9	99.2	85.0	79.4	70.9	56.7	36.8	19.8	14.2	8.5
77.5°	17.0	19.8	22.7	17.0	14.2	11.3	8.5	2.8	0.0	0.0	0.0
80°	0.0	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

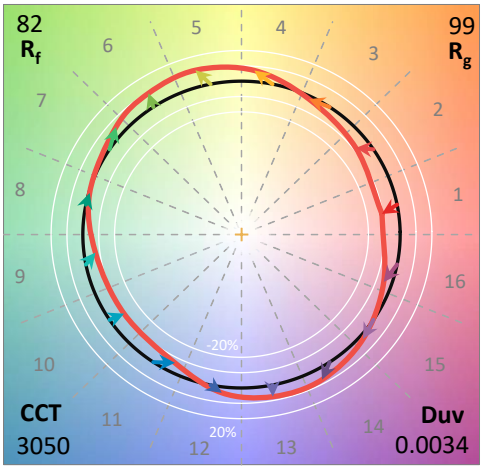
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

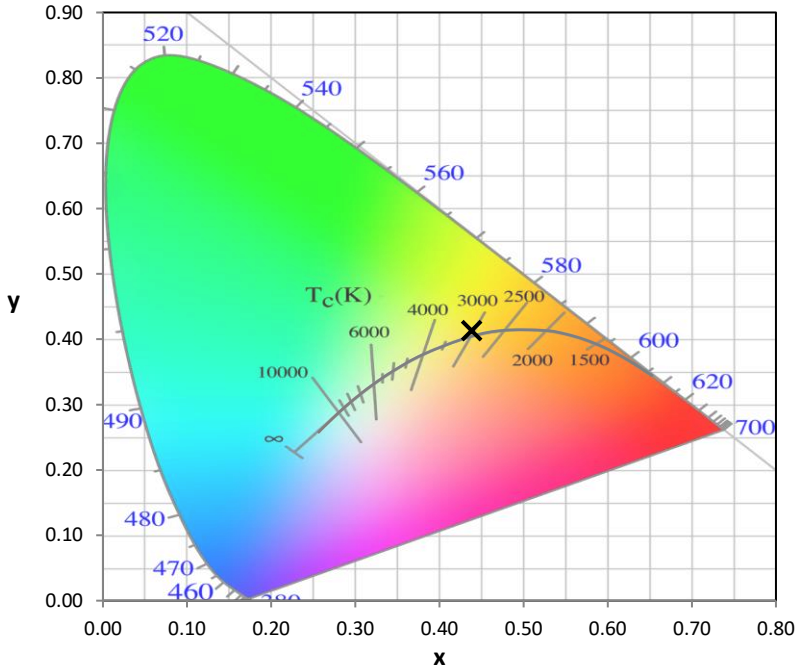
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

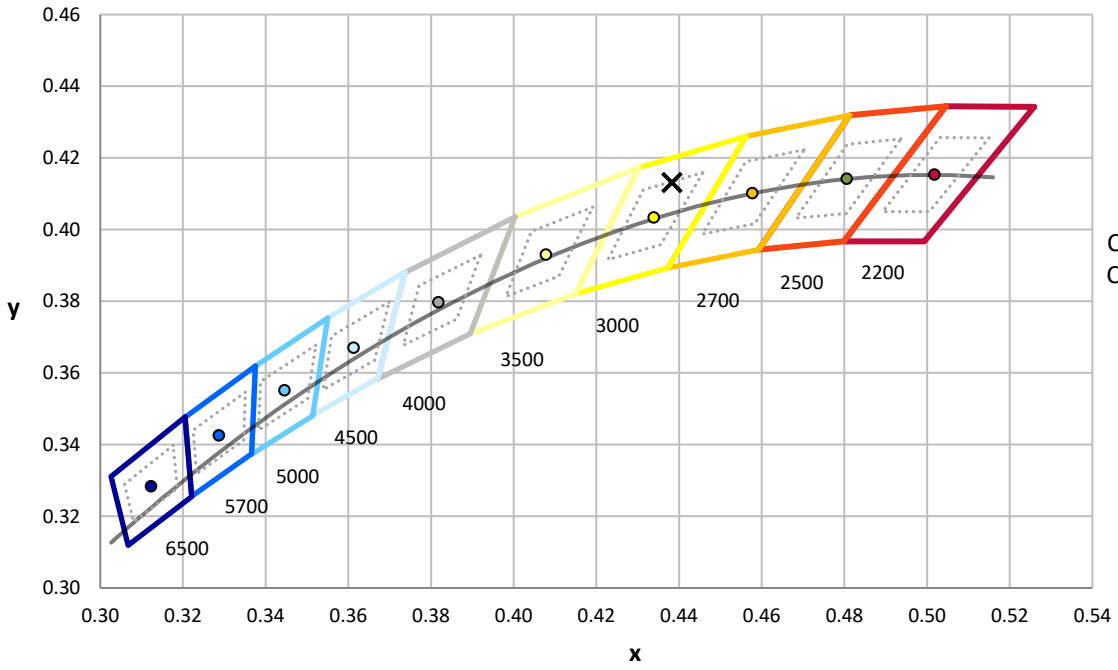
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

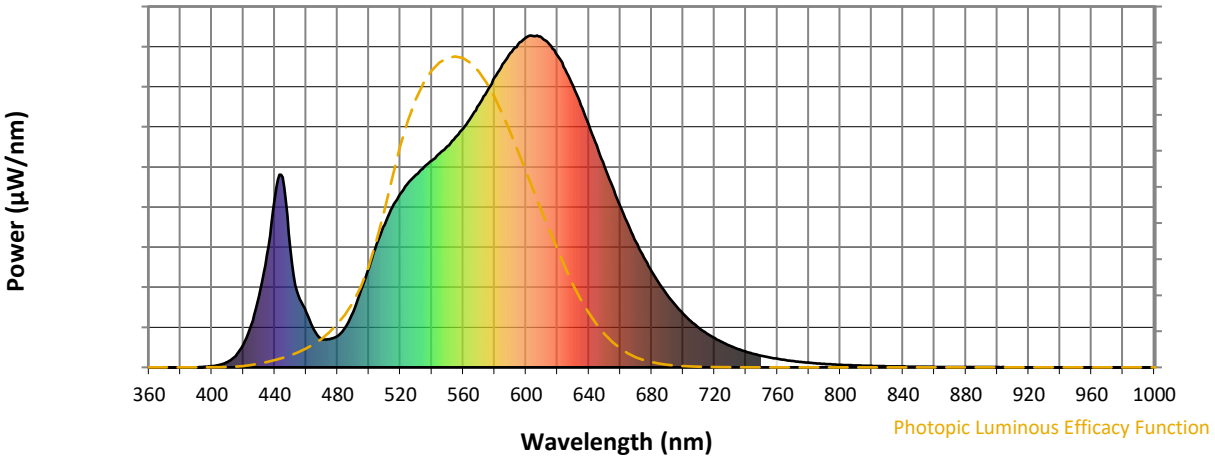


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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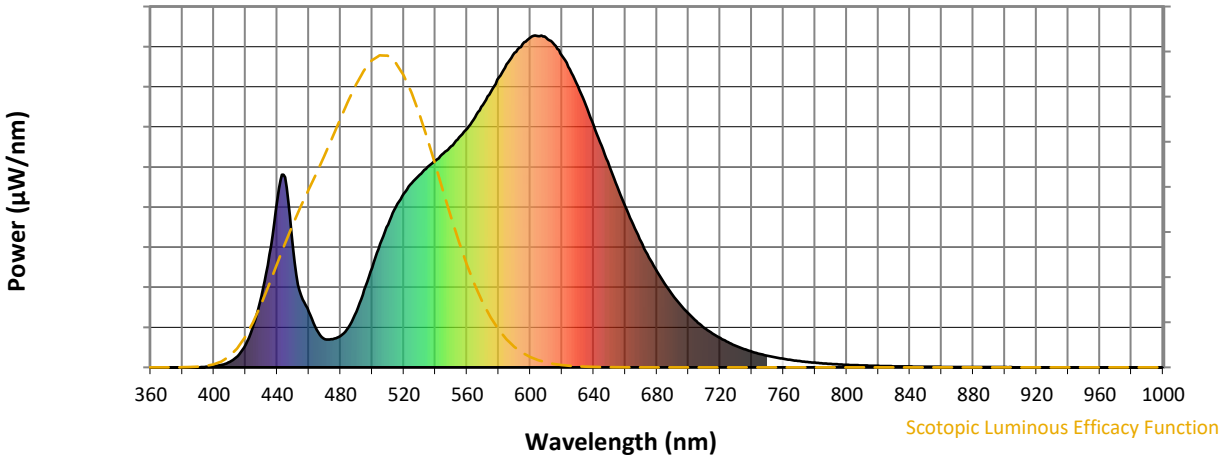
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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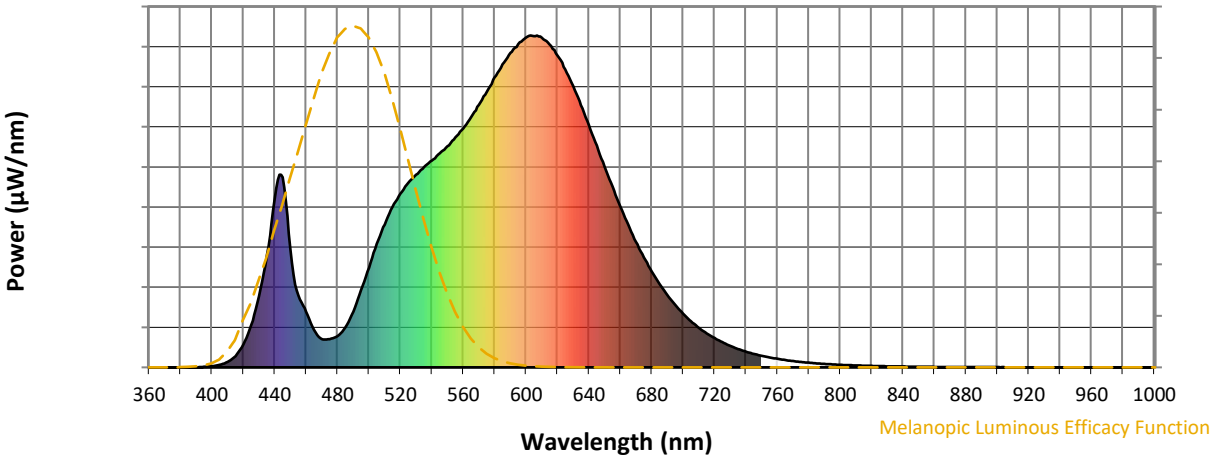
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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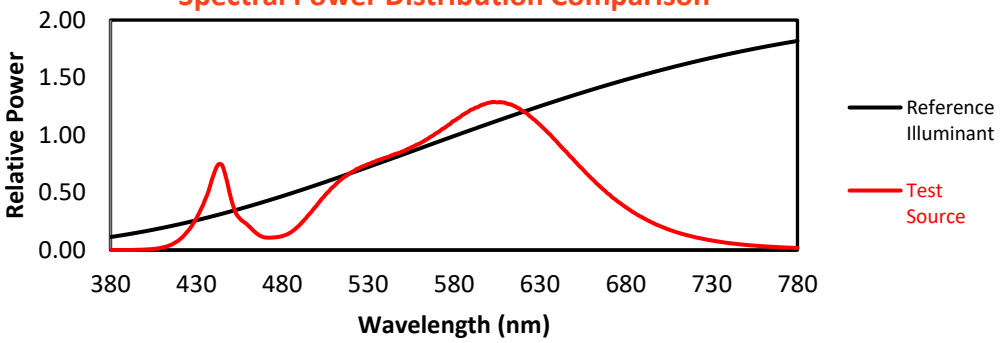
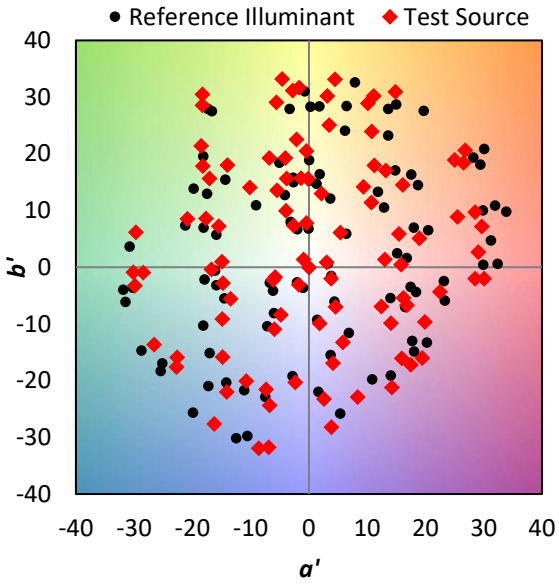
Summary

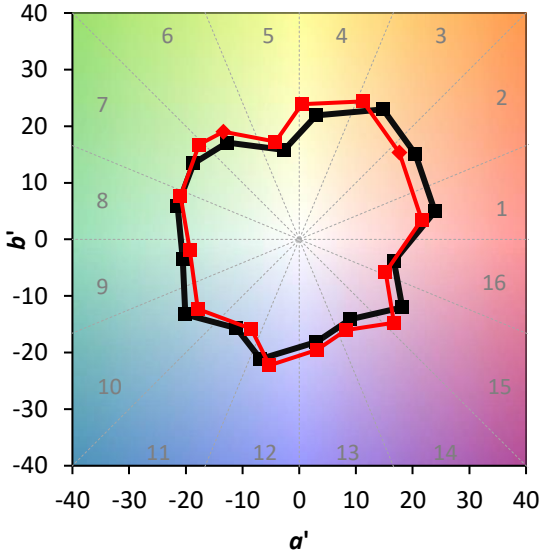
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

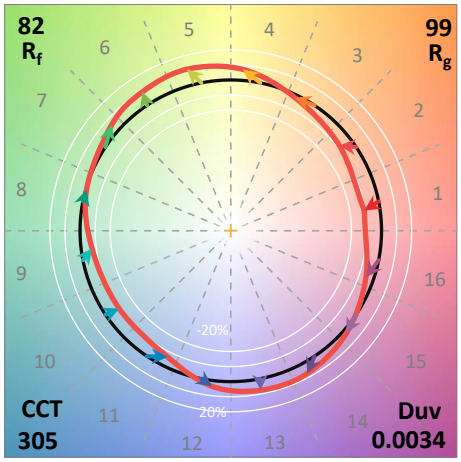
Spectral Power Distribution Comparison

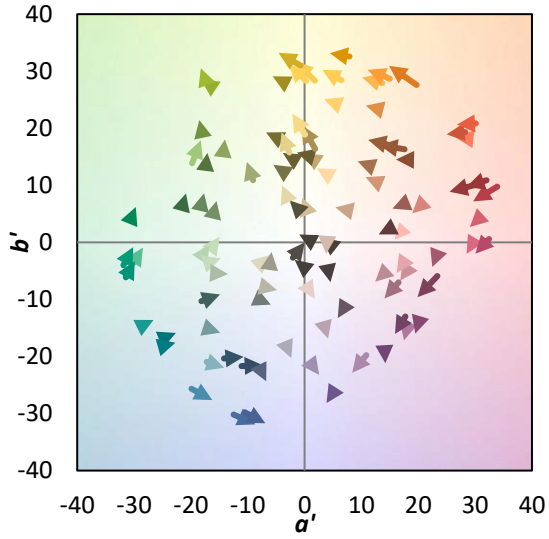


Color Vector Graphics









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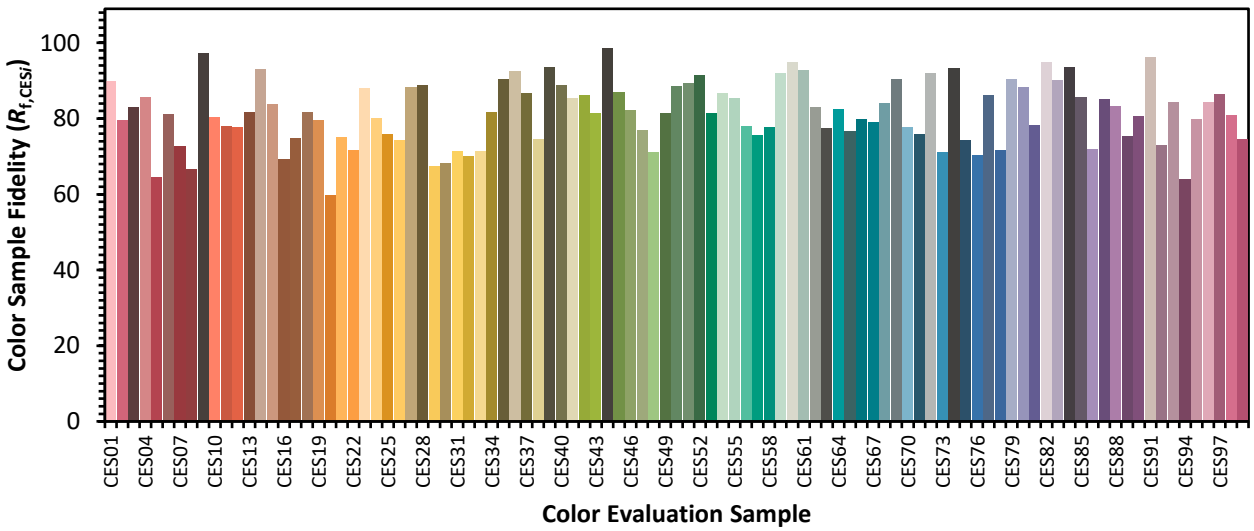
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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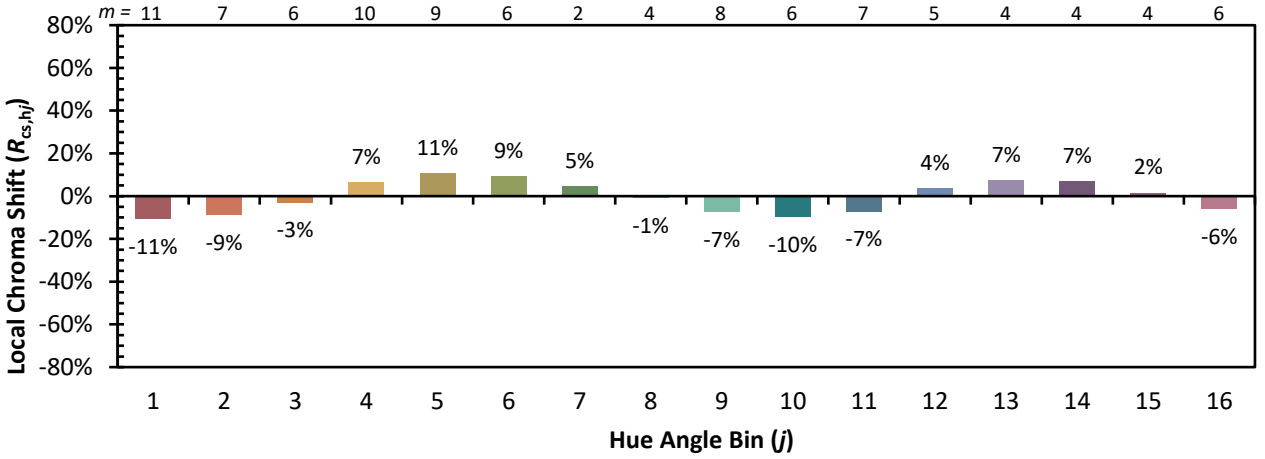
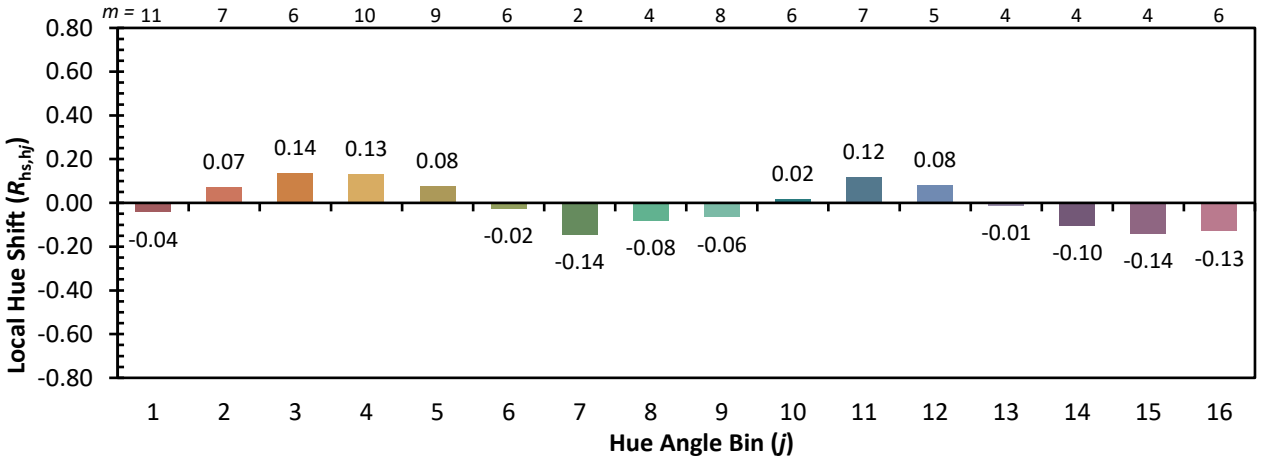
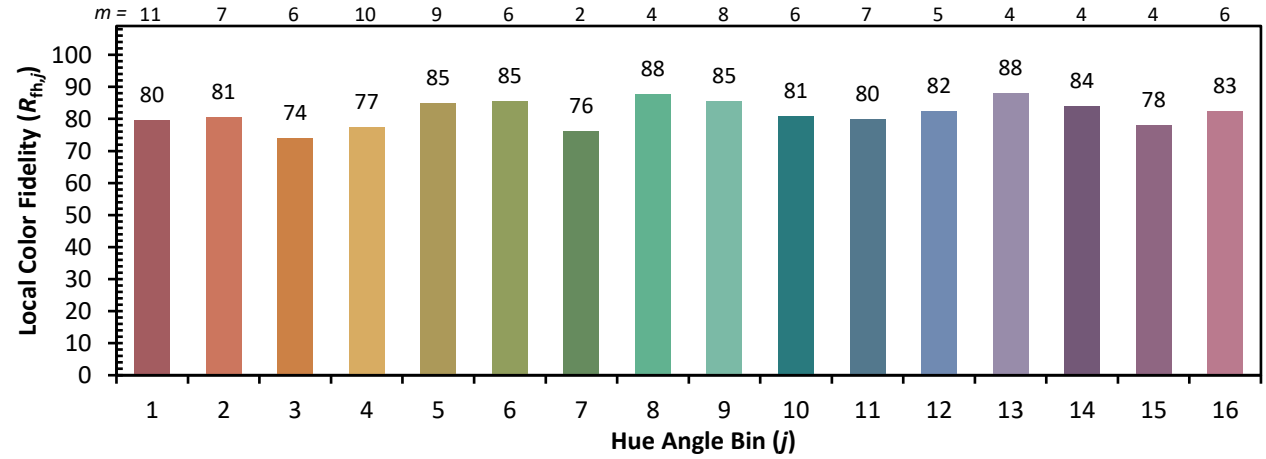
Color Rendition by Hue-Angle Bin







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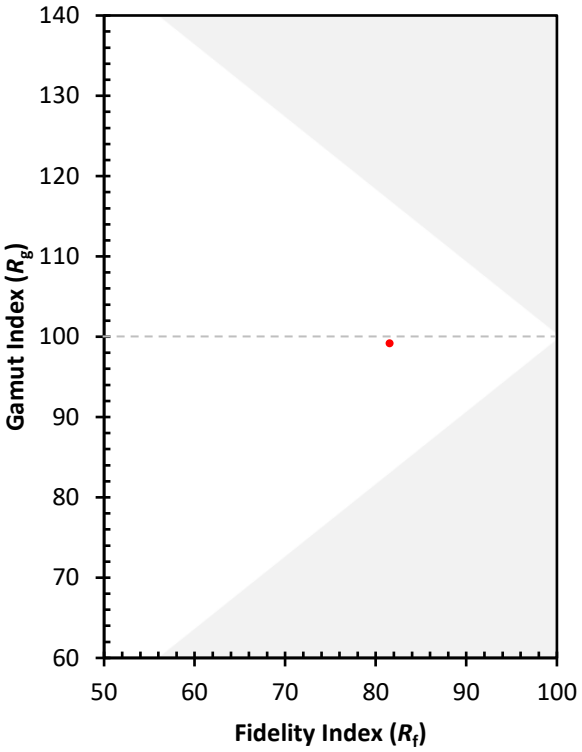
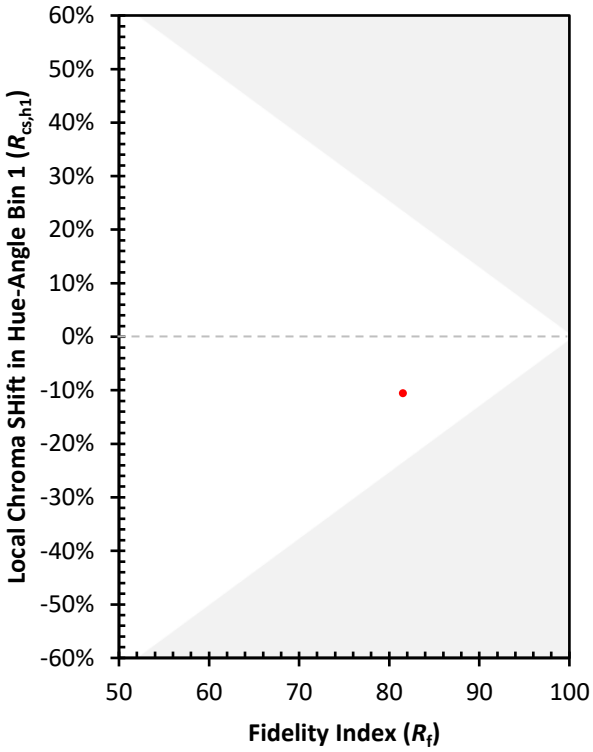
Measure Comparisons





(END OF REPORT)